

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P948634

Luminaire Tested: **GALN-SB3C-850-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21859 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

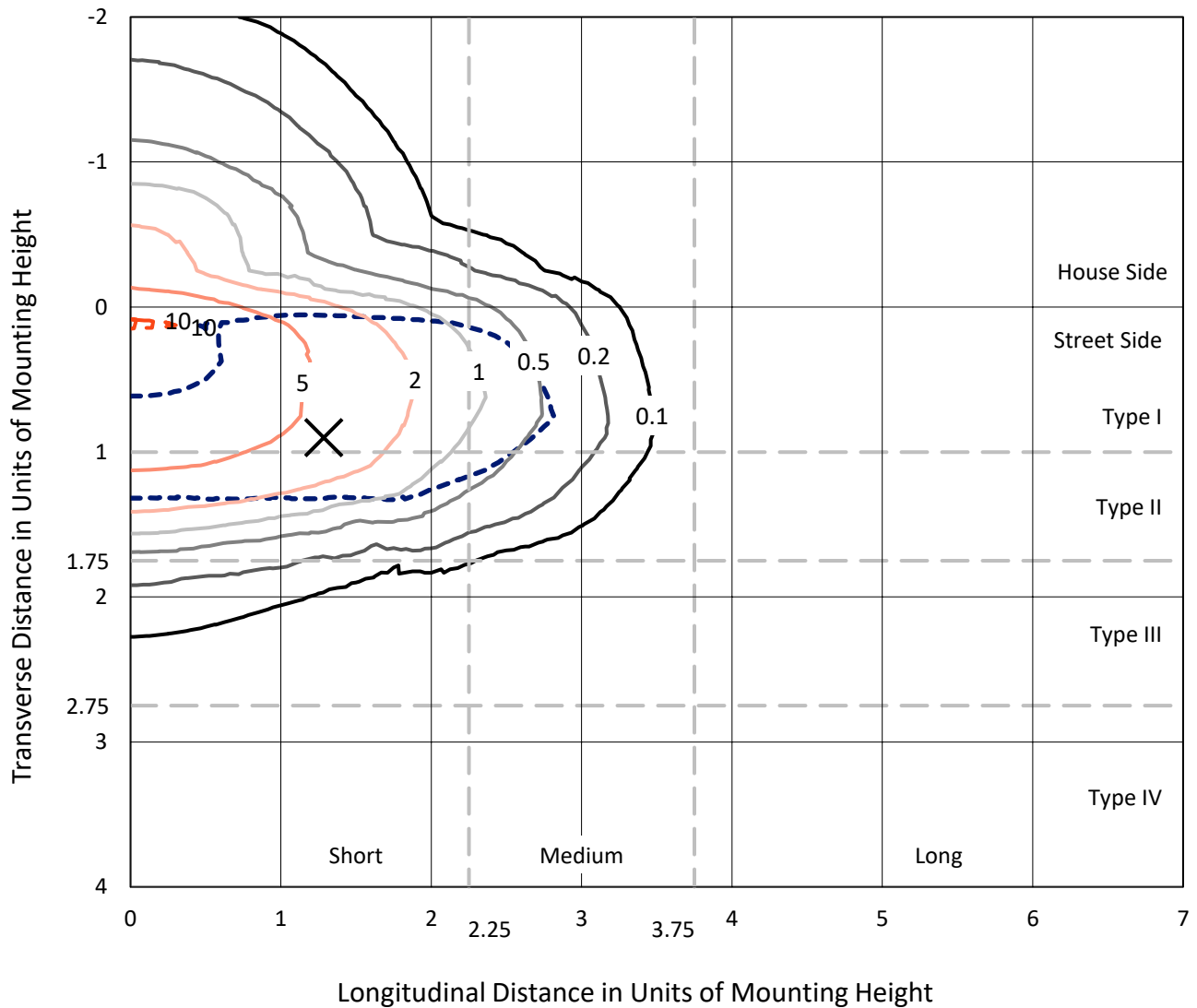
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

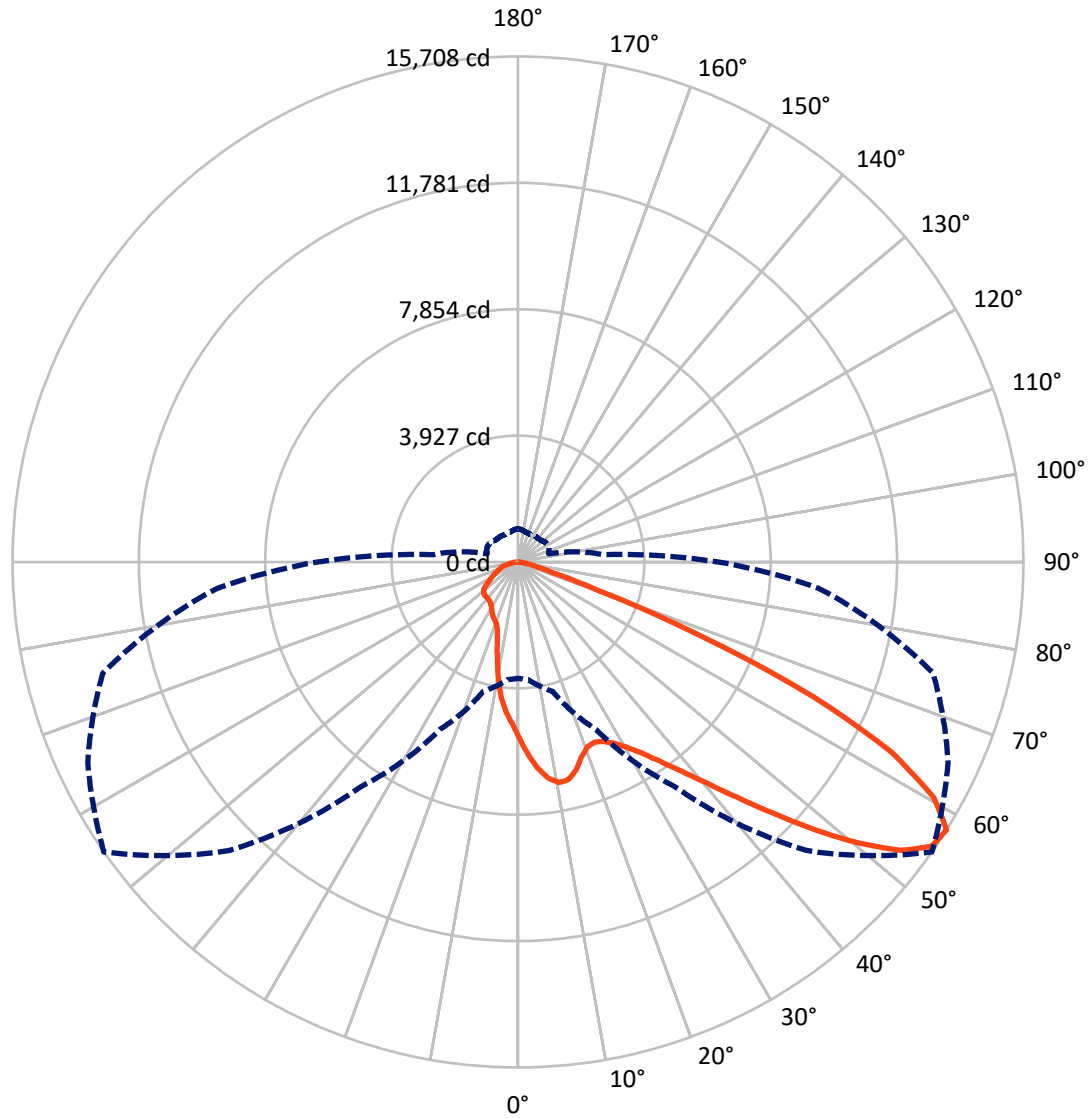
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3955.3	0.0	3955.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17903.7	0.0	17903.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	21859.0	0.0	21859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.2	2.3
10°-20°	1282.8	5.9
20°-30°	2047.0	9.4
30°-40°	3241.0	14.8
40°-50°	4960.7	22.7
50°-60°	5313.3	24.3
60°-70°	3342.6	15.3
70°-80°	988.5	4.5
80°-90°	174.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21859.0	100.0
0°-180°	21859.0	100.0

Coefficient of Utilization



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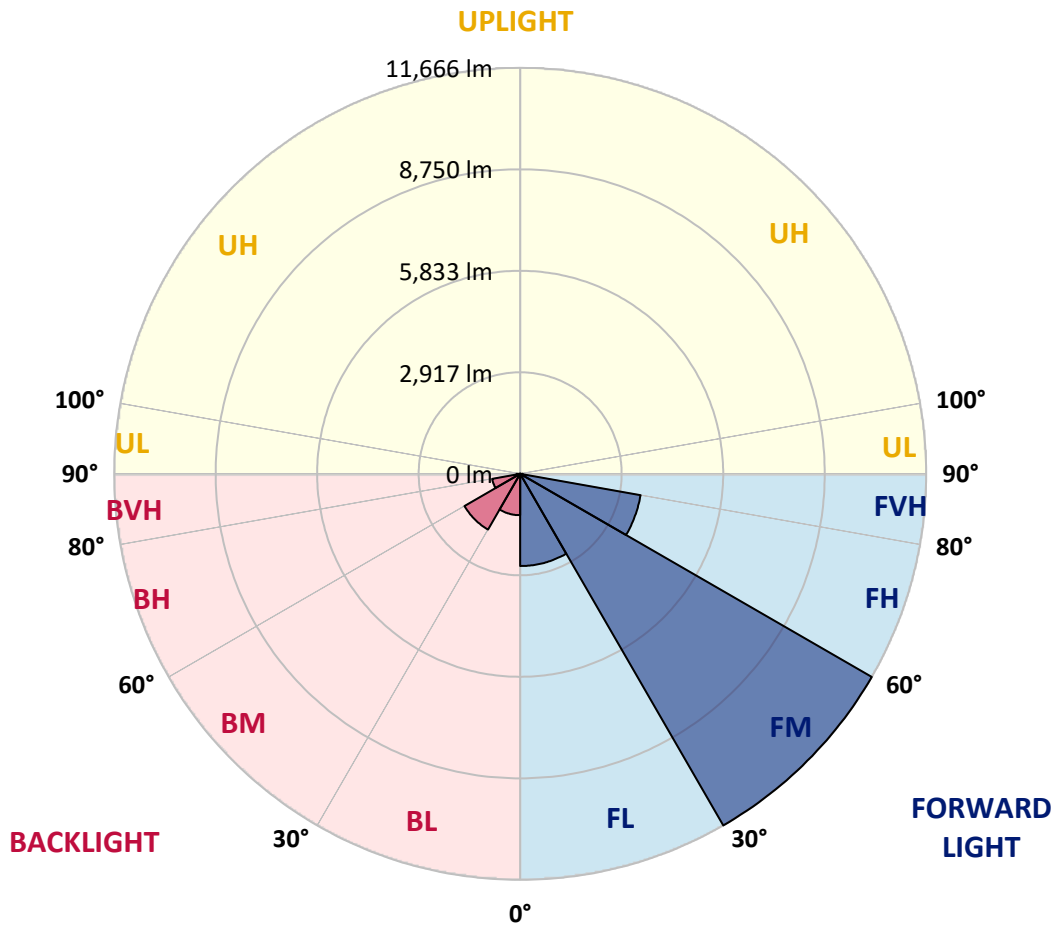
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2649.3	12.1			
FM (30°-60°)	11666.3	53.4			
FH (60°-80°)	3514.3	16.1			G2/5000
FVH (80°-90°)	73.8	0.3			G1/100
BL (0°-30°)	1188.8	5.4	B3/2500		
BM (30°-60°)	1848.7	8.5	B2/2500		
BH (60°-80°)	816.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	100.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2
2.5°	6284.0	6279.5	6304.3	6219.6	6161.9	6084.0	5981.1	5850.1	5708.8	5559.6
5°	6850.1	6810.6	6836.6	6773.3	6710.0	6592.5	6439.9	6226.4	5965.3	5668.1
7.5°	6760.8	6733.7	6800.4	6856.9	6904.4	6889.7	6777.8	6554.1	6217.3	5785.6
10°	6041.0	6010.5	6104.3	6299.8	6586.8	6836.6	6972.2	6833.2	6475.0	5914.5
12.5°	5406.0	5391.3	5453.4	5611.6	5930.3	6409.4	6947.3	7077.2	6742.8	6067.0
15°	5134.8	5116.7	5156.2	5236.5	5439.9	5886.2	6721.3	7244.5	7006.1	6243.3
17.5°	5074.9	5054.5	5071.5	5113.3	5244.4	5584.5	6380.0	7327.0	7280.7	6439.9
20°	5185.6	5168.7	5170.9	5168.7	5260.2	5530.3	6142.7	7295.3	7520.2	6620.7
22.5°	5453.4	5425.2	5426.3	5366.4	5416.1	5625.2	6080.6	7210.6	7733.8	6778.9
25°	5889.6	5838.8	5848.9	5696.4	5682.8	5837.6	6177.8	7145.0	7946.2	6905.5
27.5°	6486.3	6428.6	6398.1	6171.0	6062.5	6139.3	6375.5	7167.7	8147.4	7015.1
30°	7232.1	7162.0	7099.8	6777.8	6581.2	6552.9	6682.9	7316.8	8384.7	7130.4
32.5°	8146.2	8064.9	7951.9	7524.7	7247.9	7099.8	7080.6	7582.4	8662.7	7277.3
35°	9234.4	9128.2	8967.8	8415.2	8064.9	7762.0	7605.0	7965.4	9043.5	7498.7
37.5°	10355.4	10235.6	10088.7	9431.1	9000.5	8554.2	8244.5	8485.2	9550.8	7799.3
40°	11389.4	11254.9	11118.2	10532.8	10070.6	9532.8	9027.6	9142.9	10171.2	8158.7
42.5°	11999.6	11900.1	11848.1	11531.7	11174.7	10628.9	10001.7	9922.6	10868.4	8572.3
45°	11972.5	11931.8	12092.2	12223.3	12138.6	11835.7	11143.0	10784.8	11567.9	8930.5
47.5°	11332.9	11360.0	11718.2	12455.0	12779.3	12937.5	12442.5	11631.2	12175.9	9198.3
50°	9592.7	9615.3	10444.7	12033.5	12944.3	13835.8	13731.9	12457.2	12647.1	9362.1
52.5°	8215.2	8229.9	8585.8	10783.7	12399.6	14287.8	14893.5	13235.8	12991.7	9407.3
55°	6187.9	6238.8	6637.7	8460.4	10982.6	13929.6	15600.9	14038.1	13209.8	9411.8
57.5°	3614.9	3670.3	4163.0	5742.7	8536.1	12681.0	15708.3	14750.0	13357.8	9375.7
60°	1770.7	1794.5	2009.2	3018.3	5263.6	10275.2	14844.9	15094.7	13440.3	9356.5
62.5°	1193.3	1189.9	1198.9	1489.4	2593.4	6601.5	13046.0	14491.2	13396.3	9283.0
65°	1026.0	1013.6	979.7	1045.3	1343.6	3019.4	10079.7	12690.0	13060.6	9098.8
67.5°	887.1	888.2	889.3	869.0	959.4	1393.3	6159.7	9996.1	11856.1	8226.5
70°	734.5	744.7	749.2	749.2	782.0	914.2	2629.5	6851.2	9352.0	6450.1
72.5°	669.0	647.5	649.8	638.5	638.5	696.1	1058.8	3883.8	5891.9	3628.5
75°	545.8	559.4	561.6	553.7	527.7	531.1	628.3	1629.5	2521.1	1505.2
77.5°	471.2	471.2	475.7	470.1	449.7	397.8	419.2	631.7	857.7	617.0
80°	378.6	377.4	396.6	407.9	376.3	293.8	267.8	349.2	380.8	271.2
82.5°	184.2	195.5	272.3	310.8	285.9	212.4	163.9	217.0	203.4	119.8
85°	107.4	101.7	122.0	172.9	163.9	117.5	79.1	113.0	106.2	61.0
87.5°	33.9	31.6	24.9	58.8	47.5	32.8	21.5	32.8	29.4	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5477.2	0°	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2	5477.2
5495.2	2.5°	5415.0	5281.7	5149.5	5028.5	4955.1	4907.6	4860.2	4807.1	4786.7	4756.2
5509.9	5°	5360.8	5103.1	4873.7	4676.0	4496.3	4355.1	4212.7	4097.4	4045.4	4080.5
5556.3	7.5°	5329.1	4956.2	4602.5	4239.8	3890.6	3611.5	3368.6	3197.9	3121.1	3140.3
5601.5	10°	5300.9	4790.1	4251.1	3678.2	3176.5	2830.7	2582.1	2452.1	2403.5	2413.7
5662.5	12.5°	5274.9	4603.7	3827.3	3073.6	2540.3	2312.0	2240.8	2241.9	2251.0	2257.8
5759.7	15°	5270.4	4378.8	3353.9	2544.8	2196.7	2182.0	2258.9	2307.5	2333.5	2341.4
5841.0	17.5°	5263.6	4109.8	2871.4	2184.3	2113.1	2212.6	2283.7	2315.4	2335.7	2336.9
5920.1	20°	5236.5	3768.6	2426.1	2012.5	2095.0	2180.9	2225.0	2249.8	2266.8	2272.4
5980.0	22.5°	5152.8	3388.9	2079.2	1935.7	2022.7	2091.6	2143.6	2171.9	2182.0	2188.8
5991.3	25°	5002.6	2964.0	1839.7	1862.3	1922.1	2009.2	2051.0	2056.6	2053.2	2063.4
5963.1	27.5°	4805.9	2508.6	1690.5	1762.8	1839.7	1914.2	1936.8	1933.4	1926.7	1938.0
5914.5	30°	4568.6	2099.6	1595.6	1650.9	1756.0	1823.8	1844.2	1836.3	1822.7	1835.1
5889.6	32.5°	4317.8	1765.1	1517.6	1573.0	1687.1	1753.8	1774.1	1766.2	1756.0	1766.2
5917.9	35°	4083.9	1531.2	1445.3	1521.0	1632.9	1698.4	1724.4	1725.5	1725.5	1738.0
5992.4	37.5°	3869.2	1394.4	1385.4	1488.2	1595.6	1654.3	1691.6	1693.9	1645.3	1648.7
6119.0	40°	3670.3	1336.8	1358.3	1466.8	1559.4	1615.9	1618.2	1491.6	1402.3	1400.1
6263.6	42.5°	3507.5	1325.5	1366.2	1464.5	1533.4	1535.7	1376.4	1278.0	1253.2	1254.3
6397.0	45°	3355.0	1322.1	1384.3	1464.5	1495.0	1326.6	1219.3	1193.3	1195.6	1204.6
6456.9	47.5°	3184.4	1308.6	1387.7	1444.2	1384.3	1179.7	1148.1	1136.8	1132.3	1134.5
6443.3	50°	2997.9	1260.0	1344.7	1403.5	1194.4	1116.4	1076.9	1073.5	1079.2	1082.5
6367.6	52.5°	2801.3	1180.9	1271.3	1330.0	1107.4	1061.1	1017.0	1024.9	1049.8	1057.7
6288.5	55°	2672.5	1088.2	1174.1	1183.1	1046.4	1009.1	971.8	989.9	1036.2	1050.9
6241.0	57.5°	2638.6	989.9	1063.3	1053.2	968.4	963.9	941.3	957.1	1015.9	1037.3
6238.8	60°	2628.4	901.7	954.9	946.9	892.7	914.2	908.5	916.4	936.8	943.6
6216.2	62.5°	2549.3	831.7	857.7	846.4	824.9	862.2	875.8	858.8	874.6	882.5
6061.4	65°	2348.2	775.2	762.8	754.8	763.9	797.8	824.9	791.0	805.7	828.3
5464.7	67.5°	2015.9	698.3	664.4	673.5	701.7	719.8	754.8	716.4	728.9	767.3
4401.4	70°	1630.6	601.2	570.7	596.6	623.8	661.1	666.7	640.7	670.1	713.0
2686.0	72.5°	1153.7	502.9	481.4	534.5	543.5	592.1	579.7	567.3	607.9	622.6
1327.8	75°	800.0	405.7	393.2	433.9	466.7	508.5	499.5	514.2	600.0	606.8
663.3	77.5°	506.2	315.3	307.4	333.4	378.6	424.9	439.6	606.8	1024.9	1065.6
344.7	80°	293.8	235.0	226.0	246.3	285.9	328.8	423.8	744.7	675.7	667.8
154.8	82.5°	163.9	161.6	150.3	155.9	191.0	237.3	598.9	524.3	426.0	439.6
62.2	85°	76.8	94.9	81.4	78.0	107.4	278.0	400.0	299.5	198.9	194.4
13.6	87.5°	20.3	18.1	18.1	20.3	45.2	239.6	159.3	127.7	75.7	73.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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